



2017-2018

**1.1 Adding, Subtracting & Multiplying Polynomials
(A.APR.1)**Name _____ Date _____
Period _____**Simplify each expression by adding or subtracting. Show work!!**

1. $(-8x^2 + 2x + 1) + (10x^2 - x)$

2. $(9x^2 - 7x + 12) + (-5x^2 + 2x)$

3. $(5x^2 + 7x - 8) - (7x^3 + 2x^2 + 3x)$

4. $(4x^3 + 3x^2 + 5x) - (8x^2 - x + 11)$

5. $(6x^2 + 8x - 2) + (3x^2 - 9x - 4)$

6. $(-x^2 - 10x + 7) - (-2x^2 + 3x - 1)$

7. $(x^2 + 4x + 10) + (3x^2 - x - 12)$

8. $(3x^2 + 7x - 8) - (2x^2 + 2x - 6)$

9. $(-x^2 - 12x - 29) + (5x^3 + 4x - 7x^2 + 6)$

10. $(-7x + 3) + (-x^2 + 9x - 1) - (-4x^2 + 12x - 2)$

Simplify each expression by multiplying. Show work!

11. $(x-6)(x+2)$

12. $(x+4)(2x^2-x+8)$

13. $(5y^2-2y-1)(y+4)$

14. $(x+5)(x-9)$

15. $(x-2)(x^2+3x+4)$

16. $(x-1)(x+1)(5x-6)$

Simplify each expression. Show work!

17. $(x+3)(x-7)+(6x^2-7x-12)$

18. $(x-5)(3x^2+4x-1)-(-x^3+7x^2-6)$

19. $(x+3)(x-7)(x+1)$

20. $(2x+4y)(x-2y)(3x+y)$

21. Find the perimeter and area of the rectangle.

Perimeter:

Area:

$(x-5)$ cm

